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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/808,811	03/15/2001	Kym B. Arcuri	062754.0240	6327
7:	590 02/13/2004		EXAMINER	
Thomas R. Felger		ELVE, MARIA ALEXANDRA		
Baker Botts L.L.P. 2001 Ross Avenue			ART UNIT PAPER NUMBER	
Dallas, TX 75201-2980			1725	

DATE MAILED: 02/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		et e			
	Application No.	Applicant(s)			
	09/808,811	ARCURI ET AL.			
Office Action Summary	Examiner	Art Unit			
	M. Alexandra Elve	1725			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pr				
Disposition of Claims					
4) Claim(s) 16-21 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) 19-21 is/are allowed. 6) Claim(s) 16 is/are rejected. 7) Claim(s) 17 and 18 is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration. r election requirement.				
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>15 March 2001</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)□ The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	tion No red in this National Stage			
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/01, 5/01, 5/02.	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Agee (US Pat. 4,973,453) in view of Jacobs et al. (US Pat. 5,639,401).

Agee discloses a system in which synthesis gas generator and a hydrocarbon synthesis reactor form heavier hydrocarbon products. Hydrocarbon synthesis may use catalysts such as the cobalt forms (abstract, figure 1, col. 2, lines 35-51, col. 4, lines 38-68, col. 5, lines 1-68 & col. 6, lines 1-24). Agee does not specifically teach the porosity or voidage of the catalyst.

Jacobs et al. disclose a catalytic product, used in hydrocarbon synthesis, which has a void fraction of 0.4 to 0.9 and preferably 0.6 to 0.9 (abstract, col. 7, lines 5-45). It would have been obvious to one of ordinary skill in the art at the time of the invention to determine the voidage or porosity ratios, as taught by Jacobs et al. in the Agee system, because it aids in the determination of efficient and through hydrocarbon synthesis reactions.

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Allowable Subject Matter

Claims 17-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art does not teach a catalytic concentration of 30% or a linear dimension of 500 microns.

Claims 19-21 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art does not teach a separate saturation unit.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See US PTO-892.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Alexandra Elve whose telephone number is 571-272-1173. The examiner can normally be reached on 6:30-3:00 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 7, 2004.

M. ALEXANDRA ELVE PRIMARY EYAMINER